

CSC402 - Assignment #6

Due in Sakai Sunday 11/12

Version 3.0

Problems:

Implement a compiler that translates the Cuppa1 language to the stack machine language defined in Assignment #4. As a starting point you can use the Cuppa1 compiler discussed in class.

Demonstrate that your compiler works by running the translated programs on your interpreter/abstract machine. In particular, show that your compiler translates the following programs correctly:

```
get x;
x = x - 1;
put x;

and

// list of integers
get x;
while (1 <= x)
{
    put x;
    x = x - 1;
}
```

and that the code executes correctly on your stack machine.

If your stack machine code did not work properly you can download a functioning version from the course website.

Deliverables:

Hand in your source code together with a Jupyter Notebook that shows that your program works. To submit your work create a zip file of your sources and the notebook and submit it through Sakai. Assignments submitted in formats other than Jupyter Notebooks will not be graded and a failing grade will be recorded.